

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/059742 A1

(51) International Patent Classification⁷: **G06F 9/44**

(21) International Application Number:
PCT/EP2004/053444

(22) International Filing Date:
14 December 2004 (14.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03029167.8 18 December 2003 (18.12.2003) EP

(71) Applicant (for all designated States except US): **SAP AK-
TIENGESSELLSCHAFT** [—/DE]; Patent, Neurottstr. 16,
69190 Walldorf (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LAUFF, Markus**
[DE/DE]; Mozartstr. 23, 68723 Oftersheim (DE). **MA,
Jun** [CN/DE]; Parkstrasse 17, 76131 Karlsruhe (DE).
SPRIESTERSBACH, Axel [DE/DE]; Jollystr. 49, 76137

Karlsruhe (DE). **ULMER, Cédric** [FR/FR]; La Rou-
viere Bat A, 83 Bd du Redon, F-13009 Marseille (FR).
ZIEGERT, Thomas [DE/DE]; Am Hopfengarten 4a,
64295 Darmstadt (DE).

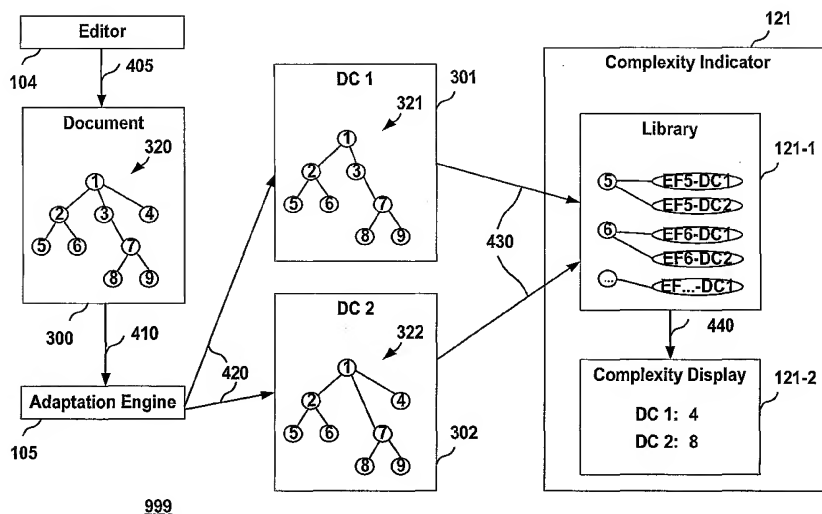
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]

(54) Title: METHOD AND COMPUTER SYSTEM FOR EVALUATING THE COMPLEXITY OF A USER INTERFACE



(57) Abstract: Method and computer system for evaluating the complexity a user interface. A complexity indicator (121) receives (430) device class specific representations (301, 302) of the user interface. Each device class specific representation (301, 302) refers to a respective device class (DC1, DC2). The complexity indicator (121) determines complexity values of layout components (1 to 9) of the device class specific representations (301, 302) by using complexity evaluation functions (EF5-DC1, EF5-DC2, EF6-DC1, EF6-DC2), associated with the layout components (5, 6) and aggregates the complexity values by device class according to a corresponding layout component hierarchy (321, 322) of the respective device class specific representation (301, 302).

WO 2005/059742 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.